

PRODUCT INFORMATION

EC Medium with MUG

Cat. No. E05-101



ALPHATM
BIOSCIENCES

Date of Issue:
05/17/2021

DESCRIPTION

EC Medium with MUG may be used for the selective growth of coliform bacteria and for the fluorogenic detection of *Escherichia coli*. in water and food samples.

PREPARATION

Mix 37 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Autoclave at 121°C for 15 minutes in appropriate containers.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and light beige.
2. Visually the prepared medium is brilliant to clear and pale to light yellow.
3. Expected cultural response after 18-24 hours at 35°C.

Formula* per Liter:

Enzymatic Digest of Casein	20.0g
Lactose	5.0g
Dipotassium Phosphate	4.0g
Monopotassium Phosphate	1.5g
Sodium Chloride.....	5.0g
Bile Salts #3	1.5g
MUG Reagent.....	0.05g

Final pH: 6.9 ± 0.2 at 25°C

* Grams per liter may be adjusted or formula supplemented to obtain desired performance.

Organism	Incubated at 35 ± 2 °C			Incubated at 44.5 ± 0.5 °C			
	Growth	Gas/ Fluor		Growth	Gas/ Fluor		
<i>Escherichia coli</i> ATCC® 11775	Growth	+	+	Growth	+	+	+
<i>Escherichia coli</i> ATCC® 25922	Growth	+	+	Growth	+	+	+
<i>Enterobacter aerogenes</i> ATCC® 13048	Growth	+	-	Poor to Fair	-	-	-
<i>Enterococcus faecalis</i> ATCC® 29212	Inhibited	-	-	Inhibited	-	-	-

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.